



ENGINE OILS

ADDINOL SUPER LONGLIFE MD 1047

PRODUCT DESCRIPTION

The engine oil ADDINOL Super Longlife MD 1047, Super High Performance Diesel fuel-economy oil (SHPD-oil), is a high-tech-product in the range of ADDINOL.

ADDINOL Super Longlife MD 1047, a semi-synthetic diesel engine oil in the SAE-grade 10W-40, based on high-grade mineral oil raffinates, hydrocrack and synthetic oils (PAO) as well as an optimal additive combination.

APPLICATION

- Particularly in highly supercharged commercial motor vehicle diesel engines with heaviest operating conditions
- As fuel-economy oil and SHPD-oil with substantially extended oil change intervals according to the regulations of the engine manufacturer
- supports the requirements of Euro 3
- Excellent suitability for RME-operation (biodiesel). Consider the reduction of oil change intervals as formulated in the new regulations of the vehicle manufacturer
- Because of multi-grade characteristics year-round operation for all operating conditions

DELIVERY

Delivery preferable in drums and 20 l cans

CHARACTERISTICS

- Best detergent-dispersant behaviour
- Excellent protection against wear and corrosion
- Excellent viscosity-temperature behaviour
- Best thermal-oxidative stability

SPECIFICATIONS / APPROVALS

Meets and exceeds the international specifications of:

- ACEA E7, A3/B4
- API CI-4/SL
- Global DHD-1

Approved according to:

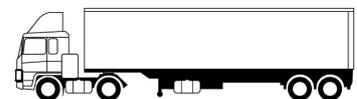
- MB-Approval 228.3
- MB-Approval 229.1
- MAN M 3275-1
- Volvo VDS-3
- MTU oil category 2
- Renault RLD-2
- Deutz DQC III-10
- MACK EO-N
- MACK EO-M Plus

Complies with the requirements of:

- Cummins 20076/77/78
- Caterpillar ECF-2
- DAF

ADVANTAGES AND BENEFITS

- Excellent engine cleanliness, long engine lifetime with low oil consumption
- Improved efficiency under extreme conditions, long engine lifetime
- Usage all year around, multi-grade character
- High ageing stability and substantially extended oil change intervals





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SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		MD 1047	Method acc. to
Appearance			clear, free from contaminations	visual
Approval			MB-Approval 228.3 MB-Approval 229.1 MAN M 3275-1 Volvo VDS-3 MTU oil category 2 Renault RLD-2 Deutz DQC III-10 MACK EO-N/EO-M Plus	OEM standards
SAE-grade	J 300		10W-40	ASTM
ACEA			E7, A3/B4	Laboratory and engine tests acc. to ASTM and CEC
API			CI-4/SL	
Density	at 15°C	kg/m ³	860	DIN 51757
Viscosity	at 100°C	mm ² /s	14.9	ASTM D 7042
Viscosity index			163	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	≥ 3.5	ASTM D 4683
TBN		mg KOH / g	11.3	DIN ISO 3771
Flash point	COC	°C	min. 230	DIN EN ISO 2592
Pour point		°C	max. -39	ASTM D 7346
Pumpability		°C	down to -30	ASTM D 4684

ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.